Claims

What Is Claimed Is:

- 1. A transport system including at least one product carrier which is adapted to be moved along a slide way by means of a linear motor drive unit comprising:
 - a primary part;
 - a secondary part;

wherein the product carrier is provided with a substantially flat base plate for transporting objects;

wherein that the primary part is arranged on a vehicle and associated with the slide way of the secondary part, said vehicle being adapted to be coupled to the base plate.

- 2. A transport system according to claim 1 wherein the primary part is arranged on the lower surface of said base plate.
- 3. A transport system according to claim 1 wherein the primary part is arranged in the base plate such that it is at least partially embedded therein.
- 4. A transport system according to claim 1, wherein the linear motor drive unit is a synchronous motor
- 5. A transport system according to claim 1 wherein the product carrier is adapted to carry a voltage supply unit.
- 25 6. A transport system according to claim 5 wherein the voltage supply unit is arranged in the base plate.
 - 7. A transport system according to claim 5 wherein the slide way is formed by a pair of slide rails held in spaced relationship with one another by a plurality of support sections set up substantially vertically on a foundation.
 - 8. A transport system according to claim 7 wherein a cover section is arranged between the support sections.

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- 9. A transport system according to claim 8 wherein the secondary part is arranged on the cover section along the slide way.
- 5 10. A transport system according to claim 7 wherein the base plate is guided along the slide rails along its longitudinal edges
 - 11. A transport system according to claim 7 wherein the base plate has longitudinal edges and wherein said base plate is guided along the slide rails along its lower surface adjacent said longitudinal edges.
 - 12. A transport system according to claim 1 wherein elements are arranged between said base plate and the slide way for guiding the base plate; said elements selected from the group consisting of roller elements, spherical elements, guide elements, and friction-reducing means.
 - 13. A transport system according to claim 1 further including a position determination unit arranged between the product carrier and the slide way.
 - 14. A transport system according to claim 1 wherein the product carrier is provided with onboard electronics which communicate with a central station so as to exchange data and/or instructions therewith.
 - 15. A transport system according to claim 8 wherein bus lines are arranged on the product carrier so as to exchange data and/or instructions with the cover section.
 - 16. A transport system according to claim 1 wherein the product carrier is provided with display means
- 30 17. A transport system according to claim 1 wherein the product carrier is provided with interrogation means

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- 18. A transport system according to claim 1 wherein the product carrier is provided with input means.
- 19. A transport system according to claim 1 wherein the vehicle is adapted to be moved
 along a separate vehicle slide way extending below the base plate.
 - 20. A transport system according to claim 19 wherein the slide way is formed by a pair of slide rails held in spaced relationship with one another by a plurality of support sections set up substantially vertically on a foundation; wherein a cover section is arranged between the support sections; and wherein the vehicle slide way is formed in the cover section.
 - 21. A transport system according to claim 1 further comprising a voltage supply unit arranged in or on the vehicle.
 - 22. A transport system according to claim 20, wherein the vehicle slide way is implemented in the cover section as a substantially U-shaped slide-way groove which is open at the top in the direction of the base plate.
 - 23. A transport system according to claim 22 further comprising a releasable coupling means arranged between the vehicle and the base plate.
 - 24. A transport system according to claim 23 wherein the slide-way groove is adapted to be covered by a cover having formed therein a slot which extends in the direction of movement of the vehicle and which permits the coupling means to extend therethrough.
 - 25. A transport system according to claim 1 further comprising an adjustable rotary plate rotatably supported on the base plate.
- 26. A transport system according to claim 25 further comprising a linear rotary drive unit for rotating the rotary plate disposed between said rotary plate and the base plate:

- 27. A transport system according to claim 1 further including a brake means for the product carrier arranged on said slide way at least in the area of work stations along the slide way.
- 5 28. A transport system according to claim 27 wherein the vehicle slide way includes at least one return section for returning vehicles, which have been decoupled from the base plate, to a return location.